19. A thin convex lens made from crown glass $\left(\mu = \frac{3}{2}\right)$ has focal length f. When it is measured in two different liquids having refractive indices $\frac{4}{3}$ and $\frac{5}{3}$, it has the focal lengths f_1 and f_2 respectively. The correct relation between the focal lengths is:
(1) $f_2 > f$ and f_1 becomes negative
(2) f_2 and f_1 both become negative
(3) $f_1 = f_2 < f$
(4) $f_1 > f$ and f_2 becomes negative

Sol. 4

$$\frac{f_m}{f} = \frac{(\mu - 1)}{\left(\frac{\mu}{\mu_m} - 1\right)}$$

$$\Rightarrow \frac{f_1}{f} = \frac{\left(\frac{3}{2} - 1\right)}{\left(\frac{3/2}{4/3} - 1\right)} = 4$$

$$\Rightarrow f_1 = 4f$$

$$\frac{f_2}{f} = \frac{\left(\frac{3}{2} - 1\right)}{\left(\frac{3/2}{5/3} - 1\right)} = -5$$

$$\Rightarrow f_2 < 0$$

20. Three rods of Copper, Brass and Steel are welded together to from a 'Y' –shaped structure. Area of cross – section of each rod = 4 cm^2. End of copper rod is maintained at 100°C where as ends of brass and steel are kept at 0°C. Lengths of the copper, brass and steel rods are 46, 13 and 12 cms respectively. The rods are thermally insulated from surroundings except at ends. Thermal conductivities of copper, brass and steel are 0.92, 0.26 and 0.12 CGS units respectively. Rate of heat flow through copper rod is :
(1) 4.8 cal/s
(2) 6.0 cal/s
(3) 1.2 cal/s
(4) 2.4 cal/s

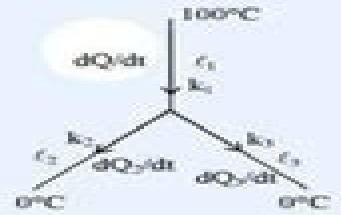
Sol. 1

$$\frac{dQ_1}{dt} = \frac{dQ_2}{dt} + \frac{dQ_3}{dt}$$

$$\Rightarrow \frac{0.92(100 - T)}{46} = \frac{0.26(T - 0)}{13} + \frac{0.12(T - 0)}{12}$$

$$\Rightarrow T = 40°C$$

$$\frac{dQ_1}{dt} = \frac{0.92 \times 4(100 - 40)}{40} = 4.8 \text{ cal/s}$$



21. A pipe of length 85 cm is closed from one end. Find the number of possible natural oscillations of air column in the pipe whose frequencies lie below 1250 Hz. The velocity of sound in air is 340 m/s.
(1) 6
(2) 4
(3) 12
(4) 8

Sol. 1

In fundamental mode

$$\frac{\lambda}{4} = 0.85$$

$$\lambda = 4 \times 0.85$$

$$f = v/\lambda = \frac{340}{4 \times 0.85}$$

$$= 100 \text{ Hz}$$

∴ Possible frequencies = 100 Hz, 300 Hz, 500 hz, 700 Hz, 900 Hz 1100 Hz below 1250 Hz.

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1. Understanding the eBook Jee Main 6 04 2014 Question Paper With Solutions In
    - The Rise of Digital Reading Jee Main 6 04 2014 Question Paper With Solutions In
    - Advantages of eBooks Over Traditional Books
2. Identifying Jee Main 6 04 2014 Question Paper With Solutions In
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Jee Main 6 04 2014 Question Paper With Solutions In
    - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Main 6 04 2014 Question Paper With Solutions In

- Personalized Recommendations
- Jee Main 6 04 2014 Question Paper With Solutions In User Reviews and Ratings
- Jee Main 6 04 2014 Question Paper With Solutions In and Bestseller Lists

5. Accessing Jee Main 6 04 2014 Question Paper With Solutions In Free and Paid eBooks
   - Jee Main 6 04 2014 Question Paper With Solutions In Public Domain eBooks
   - Jee Main 6 04 2014 Question Paper With Solutions In eBook Subscription Services
   - Jee Main 6 04 2014 Question Paper With Solutions In Budget-Friendly Options
6. Navigating Jee Main 6 04 2014 Question Paper With Solutions In eBook Formats
   - ePub, PDF, MOBI, and More
   - Jee Main 6 04 2014 Question Paper With Solutions In Compatibility with Devices
   - Jee Main 6 04 2014 Question Paper With Solutions In Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Jee Main 6 04 2014 Question Paper With Solutions In
   - Highlighting and Note-Taking Jee Main 6 04 2014 Question Paper With Solutions In
   - Interactive Elements Jee Main 6 04 2014 Question Paper With Solutions In
8. Staying Engaged with Jee Main 6 04 2014 Question Paper With Solutions In
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Jee Main 6 04 2014 Question Paper With Solutions In
9. Balancing eBooks and Physical Books Jee Main 6 04 2014 Question Paper With Solutions In
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Jee Main 6 04 2014 Question Paper With Solutions In
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Jee Main 6 04 2014 Question Paper With Solutions In
    - Setting Reading Goals Jee Main 6 04 2014 Question Paper With Solutions In
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jee Main 6 04 2014 Question Paper With Solutions In

- Fact-Checking eBook Content of Jee Main 6 04 2014 Question Paper With Solutions In
- Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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